

Curriculum Vitae

Ashraf M. Ahmed (Professor of Molecular Bacteriology)

ADDRESS:

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BIRTHDATE: September 28, 1968

BIRTHPLACE: Egypt

GOOGLE SCHOLAR RANKING:

H INDEX: 20

Total citations: 1077

<http://scholar.google.com.eg/citations?user=cHepN9IAAAAJ&hl=en>

EDUCATION HISTORY

Degree	Date	Subjects/ Faculty	Univ./Country
Doctor of Philosophy (Ph.D.)	9/2005	Molecular Bacteriology/ Graduate School of Biosphere Science	Hiroshima Univ. Japan
Master of Veterinary Science (M.V. Sc.)	6/1996	Bacteriology /Faculty of Veterinary Medicine	Tanta Univ. Egypt
Bachelor of Veterinary Science (B.V. Sc.)	2/1992	Faculty of Veterinary Medicine	Suez Canal Univ. Egypt

POSTDOCTORAL FELLOWSHIPS

Date	Period	Provider	Type	Host
2014-2016	2-years	Japan Society for the Promotion of Science (JSPS)	Pathway to University Positions in Japan	Hiroshima University
2006-2008	2-years		Standard	

EMPLOYMENT HISTORY

Position	Date	Specialization	Dep./Fac./Univ./Count.
Professor	11/2015-Till now	Molecular Bacteriology	Department of Bacteriology, Mycology and Immunology/ Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
Associate Professor	10/2010-11/2015		
Assistant Professor	10/2005-10/2010		
Assistant Lecturer	8/1996-10/2005		
Demonstrator	10/1992-8/1996		

TEACHING HISTORY

Date	Job	Courses	Students/Place
4/2008-8/2014	Assistant, Associate and Professor	1- General Bacteriology (Theoretical and Practical lessons) 2- Systematic Bacteriology (Theoretical and Practical lessons) 3-Bacterial Genetics (Theoretical and Practical lessons) 4- Immunology 5- Interdisciplinary Seminars	Undergraduate and Graduate Students/ Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
10/1992-9/2001	Demonstrator and Assistant Lecturer	1- Microbiology (Practical lessons) 2- Bacterial Genetics (Practical lessons)	

FIELD OF FINE SPECIALIZATION

Molecular Bacteriology and Food Microbiology

RESEARCH INTERESTS

Genetic bases of antimicrobial resistance in foodborne pathogens, virulence genes, mobile genetic elements and biotechnology

PROFESSIONAL EXPERIENCE

- I- Traditional Bacteriology Techniques:
 - Bacterial isolation and Biochemical identification
 - Serological identification
 - Antimicrobial sensitivity test and Pathogenicity tests
- II- Basic Molecular Techniques:
 - DNA isolation, Restriction enzymes
 - Design primers and PCR
 - DNA Hybridization
- III- Advanced Molecular Techniques:
 - DNA Sequencing and BLAST analyses
 - Gene cloning and expression
 - Genome Mapping and Genotyping
 - Bioinformatics and Phylogenetic Analysis

ENGLISH LEVEL

TOEFL Score: 223 computer-based test (equal to 563 paper-based test).

AWARDS/GRANTS

- 1- Postdoctoral Fellowship (**Pathway to University Positions in Japan**) from August 2014 to August 2016 at Hiroshima University from Japan Society for the Promotion of Science (JSPS).
- 2- Selected by Marquis **Who's Who** Organization in 2012 edition.
- 3- Lab **Accreditation Project** Grant 2011-2014 (**350,000 US \$** for 18 months) funded by Ministry of Higher Education.
- 4- Young Research Grant Award 2010-2013 (**125,000 US \$** for 3 Years) funded by Science and Technology Development Fund (STDF), Ministry of Scientific Research, Egypt.
- 5- Lecturer Research Grant Award 2009 (2,000 US \$ for 6 months) funded by Kafr El-Sheikh University, Egypt.
- 6- Travel award (November 11-14, 2007) from **Food and Agriculture Organization** (FAO) of the United Nations to attend the 13th International Symposium for the World Association of Veterinary Laboratory Diagnosticians (Melbourne, Australia).
- 7- Postdoctoral Fellowship (**April 2006-March 2008**) at Hiroshima University from **Japan Society for the Promotion of Science (JSPS)**.
- 8- Outstanding Poster Award (April 27-29, 2005) from 5th international Symposium on Antimicrobial Agents and Resistance, Seoul, Korea.
- 9- **Doctoral Fellowship** (September 2001-September 2005) at Hiroshima University, Japan from government of Egypt.

LIST OF PUBLICATIONS

A. PAPERS IN IMPACTED INTERNATIONAL JOURNALS

1. Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2017) High Carbapenem Resistance in Clinical Gram-Negative Pathogens Isolated in Egypt. **Microbial Drug Resistance**, 23(7):838-844. (Impact factor 2.306).
2. Soliman, A. M., **Ahmed, A. M.**, Shimamoto, T., El-Domany, R. A., Nariya, H., & Shimamoto, T. (2017). First report in Africa of two clinical isolates of *Proteus mirabilis* carrying Salmonella genomic island (SGI1) variants, SGI1-PmABB and SGI1-W. **Infection, Genetics and Evolution**, 51, 132-137. (Impact factor 2.885).
3. Khalifa, O.H., **Ahmed A.M.**, Oreiby, A.F., Eid, A.M., Shimamoto T. and Shimamoto T. (2016) Characterisation of the plasmid-mediated colistin resistance gene *mcr-1* in *Escherichia coli* isolated from animals in Egypt. **International journal of antimicrobial agents** 47 (5), 413. (Impact factor 4.307).
4. Elnahriry S.S., Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Moustafa A.H., Shimamoto T. and Shimamoto T. (2016) Emergence of plasmid-mediated colistin resistance gene, *mcr-1*, in a clinical *Escherichia coli* isolate from Egypt. **Antimicrobial Agents and Chemotherapy** 60:3249-3250. (Impact factor 4.415).
5. Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2016) NDM-4- and NDM-5-Producing *Klebsiella pneumoniae* coinfection in a 6-month-old infant. **Antimicrobial Agents and Chemotherapy** 60:4416-4417. (Impact factor 4.415).
6. Soliman A.M., Khalifa, O.H., **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2016) Emergence of an NDM-5-producing clinical *Escherichia coli* isolate in Egypt. **International Journal of Infectious Diseases** 48, 46-48. (Impact factor 2.229).
7. **Ahmed A.M.**, Maruyama A., Khalifa, O.H., Shimamoto T. and Shimamoto T. (2015) Seafood as a reservoir of Gram-negative bacteria carrying integrons and antimicrobial resistance genes in Japan. **Biomedical and Environmental Sciences**, 28 (12), 924-926. (Impact factor 2.204).
8. **Ahmed A.M.**, and Shimamoto T. (2015) Molecular characterization of multidrug-resistant *Shigella* spp. of food origin. **International Journal of Food Microbiology**, 194: 78–82.
9. **Ahmed A.M.**, and Shimamoto T. (2015) Molecular analysis of multidrug resistance in shiga toxin-producing *Escherichia coli* O157:H7 isolated from meat and dairy products. **International Journal of Food Microbiology**, 193: 68–73. (Impact factor 3.339).
10. **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2014) Characterization of integrons and resistance genes in multidrug-resistant *Salmonella enterica* isolated from meat and dairy products in Egypt. **International Journal of Food Microbiology**, 189: 39– 44. (Impact factor 3.339).
11. **Ahmed A.M.**, and Shimamoto T. (2014) Isolation and molecular characterization of *Salmonella enterica*, *Escherichia coli* O157:H7 and *Shigella* spp. from meat and dairy products in Egypt. **International Journal of Food Microbiology**, 168–169: 57–62. (Impact factor 3.339).
12. **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2013) Molecular characterization of multidrug-resistant avian pathogenic *Escherichia coli* isolated from septicemic broilers. **International Journal of Medical Microbiology**, 303: 475– 483. (Impact factor 3.339). (Impact factor 3.391).
13. Shimamoto T., **Ahmed A.M.**, and Shimamoto T. (2013) A novel retron of *Vibrio parahaemolyticus* is closely related to retron-Vc95 of *Vibrio cholerae*. **Journal of Microbiology**, 51(3):323-328.
14. **Ahmed A.M.** and Shimamoto T. (2012) Genetic analysis of multiple antimicrobial resistance in *Salmonella* isolated from diseased broilers in Egypt. **Microbiology and Immunology**, 56 (4):254-261.
15. **Ahmed A.M.** and Shimamoto T. (2011) Molecular characterization of antimicrobial resistance in Gram-negative bacteria isolated from bovine mastitis in Egypt. **Microbiology and Immunology**, 55(5):318-327.
16. Ishida Y, **Ahmed A.M.**, Mahfouz NB, Kimura T, El-Khodery SA, Moawad AA and Shimamoto T. (2010) Molecular Analysis of Antimicrobial Resistance in Gram-Negative Bacteria Isolated from Fish Farms in Egypt. **Journal of Veterinary Medical Science**, 72 (6):727-734.
17. Sato M, **Ahmed A.M.**, Noda A, Watanabe H, Fukumoto Y and Shimamoto T. (2010) Isolation and molecular characterization of multidrug-resistant Gram-

- negative bacteria from imported flamingos in Japan. **Acta Vet. Scand.**, 51:46.
18. **Ahmed A.M.**, Shimabukuro H and Shimamoto T. (2009) Isolation and molecular characterization of multidrug-resistant strains of *Escherichia coli* and *Salmonella* from retail chicken meat in Japan. **Journal of Food Science**, 74: M405-M410.
 19. **Ahmed A. M.**, Younis EE, Ishida Y and Shimamoto T. (2009) Genetic basis of multidrug resistance in *Salmonella enterica* serovars Enteritidis and Typhimurium isolated from diarrheic calves in Egypt. **Acta Tropica**, 111:144-149.
 20. **Ahmed A.M.**, Younis EE, Osman SA, Ishida Y, El-Khodery SA and Shimamoto T. (2009) Genetic analysis of antimicrobial resistance in *Escherichia coli* isolated from diarrheic neonatal calves. **Veterinary Microbiology**, 136:397-402.
 21. **Ahmed A.M.**, Ishida Y. and Shimamoto T. (2009) Molecular characterization of antimicrobial resistance in *Salmonella* isolated from animals in Japan. **Journal of Applied Microbiology**, 106 (2): 402-409.
 22. Hussein AI, **Ahmed A.M.**, Sato M and Shimamoto T. (2009) Characterization of integrons and antimicrobial resistance genes in clinical isolates of Gram-negative bacteria from Palestinian hospitals. **Microbiology and Immunology**, (11):595-602.
 23. Younis EE, **Ahmed A.M.**, El-Khodery SA, Osman SA, El-Naker YF. (2009) Molecular screening and risk factors of enterotoxigenic *Escherichia coli* and *Salmonella* spp. in diarrheic neonatal calves in Egypt. **Research in Veterinary Science**, 87: 373-379.
 24. Hammad AM, **Ahmed A.M.**, Ishida Y and Shimamoto T (2008) First characterization and emergence of SHV-60 in raw milk of a healthy cow in Japan. **Journal of Veterinary Medical Science**, 70 (11):1269-1272.
 25. **Ahmed A.M.** and Shimamoto T. (2008) Emergence of a cefepime- and ceftipime-resistant *Citrobacter freundii* clinical isolate harbouring a novel chromosomally encoded AmpC beta-lactamase, CMY-37. **International Journal of Antimicrobial Agents** 32(3):256-261.
 26. **Ahmed A.M.**, Motoi Y, Sato M, Maruyama A, Watanabe H, Fukumoto Y and Shimamoto T. (2007). Zoo animals as reservoirs of gram-negative bacteria harboring integrons and antimicrobial resistance genes. **Applied and Environmental Microbiology**, 73:6686-6690.
 27. **Ahmed A.M.**, Hussein AI and Shimamoto T. (2007) *Proteus mirabilis* clinical isolate harbouring a new variant of *Salmonella* genomic island 1 containing the multiple antibiotic resistance region. **Journal of Antimicrobial Chemotherapy**, 59:184-190.
 28. **Ahmed A.M.**, Kawamoto H, Inouye K, Hashiwata Y, Sakaki M, Seno M and Shimamoto T. (2006) Genetic characterization of multidrug resistance in *Shigella* spp. from Japan. **Journal of Medical Microbiology**, 55:1685-1691.
 29. **Ahmed A.M.**, Kawaguchi F and Shimamoto T. (2006) Class 2 integrons in *Vibrio cholerae*. **Journal of Medical Microbiology**, 55:643-644.
 30. **Ahmed A.M.**, Furuta K., Kawamoto H., Inoue K., Hashiwata Y. Sakaki M., Seno M. and Shimamoto T. (2005) Genomic analysis of a multidrug-resistant strain of enterohaemorrhagic *Escherichia coli* O157:H7 causing a family outbreak in Japan. **Journal of Medical Microbiology**, 54:867-872.
 31. **Ahmed A.M.**, Furuta K., Shimomura K., Kawamoto H. and Shimamoto T. (2005) Characterization of a multidrug-resistant isolate of *Salmonella* Paratyphi B from Japan. **Journal of Antimicrobial Chemotherapy**, 56:250-250a.
 32. **Ahmed A.M.**, Nakano H. and Shimamoto T. (2005) Molecular characterization of integrons in non-typhoid *Salmonella* serovars isolated in Japan: description of an unusual class 2 integron. **Journal of Antimicrobial Chemotherapy**, 55:371-374.
 33. **Ahmed A.M.**, Miyoshi S., Shinoda S. and Shimamoto T. (2005) Molecular characterization of a multidrug-resistant strain of enteroinvasive *Escherichia coli* O164 isolated in Japan. **Journal of Medical Microbiology**, 54:273-278.
 34. **Ahmed A.M.**, Shinoda S. and Shimamoto T. (2005) A variant type of *Vibrio cholerae* SXT element in a multidrug-resistant strain of *Vibrio fluvialis*. **FEMS Microbiology Letters**, 242:241-247.
 35. **Ahmed A.M.**, Nakano H. and Shimamoto T. (2004) The first characterization of extended-spectrum β -lactamase-producing *Salmonella* in Japan. **Journal of Antimicrobial Chemotherapy**, 54:283-284.
 36. **Ahmed A.M.**, Nakagawa T., Arakawa E., Ramamurthy T., Shinoda S. and Shimamoto T. (2004) New aminoglycoside acetyltransferase gene, *aac(3)-Id*, in a class 1 integron from a multiresistant strain of *Vibrio fluvialis* isolated from an infant aged 6 months. **Journal of Antimicrobial Chemotherapy**, 53:947-951.
 37. **Ahmed A.M.** and Shimamoto T. (2004) A plasmid-encoded class 1 integron carrying *sat*, a putative phosphoserine phosphatase gene and *aadA2* from enterotoxigenic *Escherichia coli* O159 isolated in Japan. **FEMS Microbiology Letters**, 235:243-248.

38. **Ahmed A.M.** and Shimamoto T. (2003) msDNA-St85, a multicopy single-stranded DNA isolated from *Salmonella enterica* serovar Typhimurium LT2 with the genomic analysis of its retron. **FEMS Microbiology Letters**, 224:291-297.

B- PAPERS AND POSTERS IN INTERNATIONAL CONFERENCES

1. Shimamoto T., **Ahmed A.M.**, Maruyama A. and Shimamoto T. (2015) Characterization of integrons and antimicrobial resistance genes in Gram-negative bacteria isolated from seafood in Japan: identification of a novel β -lactamase-encoding gene, *bla*_{CMY-39}. **World Congress and Exhibition on Antibiotics. September 14-16, 2015 (Las Vegas, USA).**
2. **Ahmed A.M.** and Shimamoto T. (2014) Food Security and Food Safety in Asia". **7th International Symposium on Food and Environment (Hiroshima, Japan).**
3. **Ahmed A.M.** and Shimamoto T. (2008) Isolation and molecular characterization of multidrug resistant strains of *Escherichia coli* and *Salmonella* from retail chicken meat in Japan. **1st ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens (Copenhagen, Denmark).**
4. **Ahmed A.M.**, Motoi Y, Sato M, Maruyama A, Watanabe H, Fukumoto Y and Shimamoto T. (2007) Zoo animals as a potential reservoir of gram-negative bacteria harboring integrons and antimicrobial resistance genes. **13th International Symposium for the World Association of Veterinary Laboratory Diagnosticians (Melbourne, Australia).**
5. **Ahmed A.M.**, Kawamoto H, Inouye K, Hashiwata Y, Sakaki M, Seno M and Shimamoto T. (2006) Molecular characterization of multidrug resistance in *Shigella* spp. from Japan. **10th Western Pacific Congress on Chemotherapy and Infectious Diseases (Fukuoka, Japan).**
6. **Ahmed A.M.**, Kawaguchi F and Shimamoto T. (2006) Class 2 integrons in *Vibrio cholerae*. **The 41th Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Gifu, Japan).**
7. **Ahmed A.M.**, Furuta K, Shimomura K, Kasama Y. and Shimamoto T. (2005) Characterization of antimicrobial resistance mechanisms of *Shigella* spp. isolated from humans in Hiroshima, Japan. **The 40th Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Boston, USA).**
8. **Ahmed A.M.**, Furuta K., Kawamoto H., Inoue K., Hashiwata Y. Sakaki M., Seno M. and Shimamoto T. (2005) Molecular characterization of a multidrug-resistant strain of enterohaemorrhagic *Escherichia coli* O157:H7 causing a family outbreak in Japan. **5th international Symposium on Antimicrobial Agents and Resistance (Seoul, Korea).**
9. **Ahmed A.M.**, Nakano H and Shimamoto T. (2005) Prevalence and characterization of integrons in non-typhoid *Salmonella* serovars isolated in Japan: description of an unusual class 2 integron. **5th international Symposium on Antimicrobial Agents and Resistance (Seoul, Korea).**
10. **Ahmed A.M.**, Shinoda S. and Shimamoto T. (2004) Characterization of a variant type of *Vibrio cholerae* SXT element in a multidrug-resistant strain of *Vibrio fluvialis*. **The 39th Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Kyoto, Japan).**
11. **Ahmed A.M.**, Miyoshi S., Shinoda S. and Shimamoto T. (2004) Molecular characterization of a multidrug-resistant strain of enteroinvasive *Escherichia coli* O164 isolated in Japan. **The 7th Korea-Japan International Symposium on Microbiology (Seoul, Korea).**
12. **Ahmed A.M.**, Nakagawa, T., Arakawa, E., Ramamurthy, T., Shinoda, S. and Shimamoto T. (2003) A new aminoglycoside acetyltransferase gene, *aac(3)-Id* and *aadA7* in class 1 integron from a multiresistant strain of *Vibrio fluvialis* isolated from a six-month infant with a cholera-like diarrhea in India. **The 26th Annual Meeting of the Molecular Biology Society of Japan (Kobe, Japan).**
13. **Ahmed A.M.**, Nakagawa, T., Arakawa, E., Ramamurthy, T., Shinoda, S. and Shimamoto T. (2003) Class I integrons and SXT elements in *Vibrio cholerae* non-O1/non-O139 and *Vibrio fluvialis* isolated from 2001 to 2002 in India: The identification of a novel aminoglycoside acetyltransferase gene, *aac(3)-Id*. **The 38th Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Washington DC, USA).**
14. **Ahmed A.M.** and Shimamoto T. (2002) A novel multicopy single-stranded DNA

- (msDNA) isolated from *Salmonella enterica* serovar Typhimurium. **The 6th Japan-Korea International Symposium on Microbiology (Suita, Japan).**
15. Shimamoto T., Kageyama N., Shimamoto T., Fujimura M, **Ahmed A.M.** and Kawakami H. (2002) Distribution of retron among serogroups of *Vibrio cholerae* and its integration into the chromosome. **The 2002 Meeting on Molecular Genetics of Bacteria & Phages (Cold Spring Harbor, NY, USA).**

EDITOR AND REVIEWER IN INTERNATIONAL EDITORIAL BOARD

A- Editor in:

1. **Journal of Applied Microbiology (Impact factor: 2.099)**
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-2672/homepage/EditorialBoard.html](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-2672/homepage/EditorialBoard.html)
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[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1472-765X/homepage/EditorialBoard.html](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1472-765X/homepage/EditorialBoard.html)
3. **Annals of Clinical Microbiology and Antimicrobials (Impact factor: 2.376)**
<http://www.springer.com/biomed/medical+microbiology/journal/12941?detailsPage=editorialBoard>
4. **International Journal of Microbiology**
<https://www.hindawi.com/journals/ijmicro/editors/>